

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview and with David D. Brush on 11/17/2009. An examiner's amendment as follows:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) System for remote control of equipment enabling interconnection between at least one server and at least one remote equipment, said at least one server carrying out the MQIsdp protocol, where MQIsdp represents an MQSeries Integrator SCADA Device Protocol, where SCADA represents Supervisory Control and Data Acquisition,

wherein the system associates, with said at least one remote equipment, radiocommunication means comprising:

sending and receiving means for exchanging specific Attention Commands (AT commands) sent by and/or to be sent to an external application used by said at least one remote equipment, wherein said specific AT commands comprise commands for:

- connecting to said at least one server;
- sending messages to said at least one server;
- receiving messages from said at least one server;

- communication means for exchanging data with said at least one server according to said MQIsdp protocol;

- interface means for making an interface between said specific AT commands and said MQIsdp protocol, so as to enable an interconnection between said at least one server and said at least one remote equipment without requiring knowledge of said MQIsdp protocol in said at least one remote equipment;

and wherein, in at least a first mode, said radiocommunication means only manage signalling of a data exchange, said data being transferred directly from said at least one remote equipment to said at least one server, or vice versa.

2. (Cancelled).

3. (Previously Presented) System for remote control of equipment according to claim 1, wherein in at least a second mode, said radiocommunication means manage signalling of a data exchange and transfer of said data, the data being temporarily stored in at least one buffer memory.

4. (Previously Presented) System for remote control of equipment according to claim 3, wherein the size of said at least one buffer memory is parameterable.

5. (Previously Presented) System for remote control of equipment according to claim 4, wherein the system operates in said first mode when the size of said at least one buffer memory is equal to 0, and otherwise in said second mode.

6. (Currently Amended) System for remote control of equipment according to claim 1, wherein said radiocommunication means comprise a radiocommunication module comprising all radio frequency and base band data processing means on the same substrate, together with means of managing said specific AT commands.

7. (Currently Amended) System for remote control of equipment according to claim 1, wherein said radiocommunication means include said MQIsdp protocol in the form of an "open-AT" application defining said ~~set of~~ specific AT commands.

8. (Cancelled)

9. (Previously Presented) System for remote control of equipment according claim 1, wherein at least some of said specific AT commands are organized so as to be able to perform at least two functions and / or to act on at least two distinct aspects, as a function of a predefined configuration.

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10. (Currently Amended) System for remote control of equipment according claim 1, wherein said ~~set of~~ specific AT commands only includes 8 commands.

11. (Currently Amended) System for remote control of equipment according to claim 1, wherein said ~~set of~~ specific AT commands includes a configuration command used to define communication parameters with said at least one server.

12. (Previously Presented) System for remote control of equipment according to claim 11, wherein the system uses a single configuration command (+WSPGSET) for configuration of radiocommunication aspects and the general configuration of aspects related to the MQIsdp protocol.

13. (Previously Presented) System for remote control of equipment according to claim 10, wherein said configuration command can be used to select one of at least two transmission modes (GSM or GPRS).

14. (Previously Presented) System for remote control of equipment according to claim 1, wherein the system uses three configuration commands:

- a general communication configuration command (+WSPGSET);
- a connection configuration command (+WSPCSET), particularly used to specify the coordinates of said at least one server;
- a configuration command for the "will" configuration message (+WSPWMS),

particularly to specify the channel to which a message will be sent.

15. (Previously Presented) System for remote control of equipment according to claim 1, wherein the system uses at least one general communication command for sending and / or receiving messages using the MQIsdp protocol.

16. (Previously Presented) System for remote control of equipment according to claim 15, wherein the system uses five general communication commands:

- a command for specifying an MQIsdp context (+WSPDCONT);
- a command for managing a connection with said at least one server
(+WSPCONM);
- a command for sending a message (+WSPSMSG);
- a command for receiving a message (+WSPRMSG);
- an administration command, used to do a reset and / or return to the default
values of a set of parameters (+WSPPA).

17. (Previously Presented) System for remote control of equipment according to claim 1, wherein the system uses at least one query command by an external application.

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18. (Previously Presented) System for remote control of equipment according to claim 17, wherein the system uses two query commands by an external application, on the following in turn:

- the current state of the connection (+WSPICON);
- reception and / or sending of a message (+WSPIMSG).

19. (Currently Amended) Device for remote control of equipment enabling interconnection between at least one server and at least one remote equipment, said at least one server carrying out the MQIsdp protocol, where MQIsdp represents an MQSeries Integrator SCADA Device Protocol, where SCADA represents Supervisory Control and Data Acquisition,

wherein the device associates, with said at least one remote equipment, radiocommunication means comprising:

- sending and receiving means for exchanging specific AT commands sent by and / or to an external application used by said at least one remote equipment, wherein said specific AT commands comprise commands for:
 - connecting to said at least one server;
 - sending messages to said at least one server;
 - receiving messages from said at least one server;

- communication means for exchanging data with said at least one server according to said MQIsdp protocol;

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- interface means for making an interface between said specific AT commands and said MQIsdp protocol, so as to enable an interconnection between said at least one server(s) and said at least one remote equipment, without requiring additional processing and / or data formatting means in said at least one remote equipment, and wherein, in at least a first mode, said radiocommunication means only manage signalling of a data exchange, said data being transferred directly from said at least one remote equipment to said at least one server, or vice versa.

20. (Previously Presented) A radiocommunication device comprising radiocommunication means used in a system for remote control of equipment according to claim 1.

21. (Previously Presented) A radiocommunication module comprising radiocommunication means used in a system for remote control of equipment according to claim 1.

22. (Currently Amended) ~~A set of AT commands used in a system for remote control of equipment according to claim 1, wherein the set of AT commands enables~~ The system of claim 1, wherein the specific AT commands enable data exchange with said at least one server using said MQIsdp protocol.

Terminal Disclaimer

The terminal disclaimer has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Claims 1, 3-7 and 9-22 are allowed. Claims allowable over prior arts of record because prior arts of record fail to teach an interface between specific AT commands and MQIsdp protocol, so as to enable an interconnection between at least one server and at least one remote equipment without requiring knowledge of said MQIsdp protocol in said at least one remote equipment. ATcommands are used to control modems to do their specified functions. In the application the special AT commands are help to connecting to one of the said servers; sending messages; receiving messages etc. Also MQIsdp is helping system to sending and receiving different type of data between applications, and it is Protocol neutrality allowing any format of data to be sent and/or received on the network.

Prior art of record for example Andy teaches that a system, based on a publish/subscribe broker, that manages the flow of information from remote devices to any enterprise applications that need the data. The system is based on the IBM MQSeries family of products (now known as webSphere MQ) and, specifically, on a new publish/subscribe protocol, MQ Integrator SCADA device protocol (MQIsdp) which operates through the family's publish/subscribe broker, webSphere MQ Integrator.

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Prior art of record also fail to teach interconnection between the said server(s) and the said remote equipment through the said radio communication means, without requiring knowledge of the said MQIsdp protocol in the said remote equipment.

For these reasons, as well as the other limitations of the independent claims, puts these claims in condition for allowance. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HARUNUR RASHID whose telephone number is (571) 270-7195. The examiner can normally be reached on Monday - Friday 9:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph E. Avellino can be reached on 571-272-3905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. R./
Examiner, Art Unit 2458

/Joseph E. Avellino/
Supervisory Patent Examiner, Art Unit 2458